
**METHOD AND APPARATUS FOR BLANKING T-WAVES
FROM COMBIPOLAR ATRIAL CARDIAC SIGNALS
BASED ON EXPECTED T-WAVE LOCATIONS**

5

Abstract of the Disclosure

10 The stimulation device blanks T-waves from the atrial channel of
an electrical cardiac signal by employing a T-wave blanking interval
localized to the expected location and duration of the T-wave. To this
end, the stimulation device determines the average interval between an
R-wave and a T-wave in the patient in which the device is implanted and
also determines the average duration of a T-wave within the patient. A T-
15 wave blanking interval is initiated following the average R-T interval
subsequent to detection of an R-wave and lasts for a period of time equal
to the average T-wave duration. In this manner, highly localized T-wave
blanking is achieved permitting P-waves or other atrial signals to be
detected during remaining non-blanked portions of the atrial channel of
20 the cardiac signal at least for the purposes of atrial rate detection. The
relatively short T-wave blanking interval of the invention is particularly well
suited for use in combipolar sensing systems. Method and apparatus
implementations are described.

10033254, 102501